

New Plant Records for Goa and Karnataka

Abstract

Molem National Park in Goa state and Rajiv Gandhi National Park in Karnataka state were floristically explored. Seventeen species collected from Molem National Park and eighteen species collected from Rajiv Gandhi National Park are new records for Goa and Karnataka respectively. They are reported.

Keywords: Molem National Park (Goa), Rajiv Gandhi National Park (Karnataka), New State records

Introduction

Molem National Park occupies an area of c. 107 sq. km and forms the core area of Bhagwan Mahaveer Wildlife Sanctuary in Goa.

Many have surveyed flowering plants of Goa (Dalgado, 1898; Cooke, 1901-1908; Vartak, 1966; Mahajan & Pangu, 1978; Rao, 1985-86; Kulkarni & Janarthanam, 1995; Joshi *et al.*, 1997; Naithani *et al.*, 1997; Patil & Yadav, 1998; Rajkumar *et al.*, 1998) and presently the state harbours 1376 species (Biodiversity Strategy & Action Plan, Goa State, 2000). Seventeen species reported here are additions to this account.

Rajiv Gandhi National Park spreads over an area of 643.39 sq. km and is part of Nilgiri Biosphere Reserve.

Sharma *et al.* (1984) reported 3,924 taxa including 144 infraspecific taxa from Karnataka. Many species have been added by subsequent workers (Saldanha, 1984, 1996; Sharma *et al.*, 1988; Singh, 1988; Keshava Murthy & Yoganarasimhan, 1990; Ramesh & Pascal, 1994; Seetharam *et al.*, 2000; Ramaswamy *et al.*, 2001; Prasad & Singh, 2002; Udayan *et al.*, 2004). Eighteen species presently recorded from Rajiv Gandhi National Park are additions to this account. All the specimens are deposited at BSI. Distribution of these species in India are provided.

Molem National Park, Goa.

Agrostistachys indica Dalzell (EUPHORBIACEAE)
Flowering & Fruiting: February-March.
 Karnataka, Kerala, Maharashtra, Tamil Nadu.
 Paikachi Rai, 4.2.2003, *Datar* 187527.

Calophyllum polyanthum Wallich ex Choisy (CLUSIACEAE)
Flowering & Fruiting: January-July.

Assam, Karnataka, Kerala, Meghalaya, Sikkim, Tamil Nadu, West Bengal.
 Paikachi Rai, 4.2.2003, *Datar* 187532

Cottonia peduncularis (Lindl.) Rchb. f. (ORCHIDACEAE)
Flowering & Fruiting: April-May.
 Karnataka, Kerala, Maharashtra, Orissa, Tamil Nadu.
 Nandran, 1.2.2003, *Datar* 186982.

Erigeron sublyratus DC. (ASTERACEAE)
Flowering & Fruiting: April-June.
 Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Nagaland, Orissa, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal.
 Karanzol Railway Station, 19.5.2002, *Datar* 186327.

Evolvulus nummularius (L.) L. (CONVOLVULACEAE)
Flowering & Fruiting: November-December.
 Andhra Pradesh, Bihar, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan, Tamil Nadu, Uttar Pradesh.
 Vasant Bandhara, 30.11.2001, *Datar* 179215.

Hedyotis trinervia (Retz.) Roem. & Schult. (RUBIACEAE)
Flowering & Fruiting: April-May.
 Karnataka, Kerala, Maharashtra, Orissa, Pondicherry, Tamil Nadu.
 Dudhsagar river bed, 21.5.2002, *Datar* 186345.

Hygrophila ringens (L.) Steudel (ACANTHACEAE)
Flowering & Fruiting: November-February.
 Andaman & Nicobar Islands, Andhra Pradesh, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh.
 Shelim, Dongurli, 11.2.2003, *Datar* 187557.

Memecylon terminale Dalzell (MELASTOMATACEAE)
Flowering & Fruiting: October-December.
 Endemic to Southern Western Ghats. Karnataka, Kerala, Maharashtra.
 Paikachi Rai, 9.12.2001, *Datar* 179285.

Pajanelia longifolia (Willd.) K. Schum. (BIGNONIACEAE)
Flowering & Fruiting: January-February.
 Karnataka, Kerala, Maharashtra, North East India.
 Kalaye village, 11.2.2003, *Datar* 186720.

Phaulopsis imbricata (Forssk.) Sweet (ACANTHACEAE)
Flowering & Fruiting: February-March.
 Andhra Pradesh, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu.
 Dongurli, 11.2.2003, *Datar* 187566.

Schumannianthus virgatus (Roxb.) Rolfe (MARANTACEAE)
Flowering & Fruiting: November-January.

Andaman & Nicobar Islands, Karnataka, Kerala, Maharashtra, Tamil Nadu.
Dongurli, 6.12.2002, Datar 179270.

Scilla hyacinthina (Roth) J. F. Macbr. (HYACINTHACEAE)
Flowering & Fruiting: June-July.
Andhra Pradesh, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Tamil Nadu, Uttar Pradesh Colem, 19.6.2003, Datar 187948.

Strobilanthes ciliatus Nees(ACANTHACEAE)
Flowering & Fruiting: September-December.
Endemic to Western Ghats. Karnataka, Kerala, Maharashtra, Tamil Nadu.
Oxel, 5.12.2001, Datar 179264.

Syzygium laetum (Buch.-Ham.) Gandhi (MYRTACEAE)
Flowering & Fruiting: November-December.
Endemic to the Western Ghats. Karnataka, Kerala, Maharashtra.
Paikachi Rai, 9.12.2001, Datar 179287.

Tolypanthus lagenifer (Wight) Tiegh. (LORANTHACEAE)
Flowering & Fruiting: May-June.
Endemic to Western Ghats. Karnataka, Kerala, Maharashtra. Karanzol river, 20.5.2002, Datar 186340.

Viscum monoicum Roxb. ex DC. (VISCACEAE)
Flowering & Fruiting: May-June.
Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu.
Atli, Sunset Point, 16.5.2002, Datar 186282.

Zanonia indica L. (CUCURBITACEAE)
Flowering & Fruiting: October-January.
Andaman & Nicobar Islands, Kerala, North East India, Sikkim, Tamil Nadu, West Bengal.
Dongurli, 15.9.2001, Datar 179062.

Rajiv Gandhi National Park, Karnataka.

Antistrophe serratifolia (Bedd.) Hook. f. (MYRSINACEAE)
Flowering & Fruiting: December-March.
Endemic to the Southern Western Ghats. Kerala, Tamil Nadu.
Bhune Kolli, 16.2.2004, Manikandan 189779A.

Arundinella mesophylla Nees ex Steud. (POACEAE)
Flowering & Fruiting: October-December.
Endemic to the Peninsular India. Kerala, Tamil Nadu. Karmad near Kalhalla, 31.10.2001, Manikandan 178749.

Biophytum nervifolium Thwaites (OXALIDACEAE)
Flowering & Fruiting: December-March.
Andhra Pradesh, Kerala, Tamil Nadu.
Veeranahosali, 30.10.2003, Manikandan 189004A.

Biophytum nudum Edgew. & Hook. f. (OXALIDACEAE)
Flowering & Fruiting: September-December.

Madhya Pradesh, Tamil Nadu.
Nagarahole, 13.9.2000, Manikandan 181269.

Cucurbita moschata (Duchesne ex Lam.) Duchesne ex Poiret (CUCURBITACEAE)
Flowering & Fruiting: January-April.
Bihar, Maharashtra, Tamil Nadu, Uttar Pradesh.
Mettukupe near Taraka dam side, 20.3.2003, Manikandan 183726.

Cuscuta chinensis Lam. (CUSCUTACEAE)
Flowering & Fruiting: November-March.
Andhra Pradesh, Gujarat, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu.
Mettukupe near Taraka dam, 21.3.2003, Manikandan 183736.

Elatine triandra Schkuhr (ELATINACEAE)
Flowering & Fruiting: August-November.
Andhra Pradesh, Himachal Pradesh, Jammu & Kashmir, Kerala, Tamil Nadu.
Nagarahole, 11.9.2003, Manikandan 188162.

Ipomoea sindica Stapf (CONVOLVULACEAE)
Flowering & Fruiting: April-July.
Madhya Pradesh, Maharashtra, subtropical Himalayas, Uttar Pradesh.
Nagarahole, 30.7.2001, Manikandan 178584A.

Leptochloa panicea (Retz.) Ohwi (POACEAE)
Flowering & Fruiting: November-January.
Andhra Pradesh, Madhya Pradesh, Tamil Nadu, Uttar Pradesh.
Veeranahosali, 23.1.2000, Manikandan 181166.

Manisuris myuros L. (POACEAE)
Flowering & Fruiting: July-October.
Endemic to Peninsular India. Andhra Pradesh, Tamil Nadu.
Nagarahole, 29.7.2001, Manikandan 178562.

Physalis lanceolata Michaux (SOLANACEAE)
Flowering & Fruiting: October-February.
Andhra Pradesh, Maharashtra.
Lokuntha, 6.11.2003, Manikandan 189856.

Polygala abyssinica R. Br. ex Fresen. (POLYGALACEAE)
Flowering & Fruiting: July-November.
Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh.
Veeranahosali, Mettukupe, 1.11.2001, Manikandan 178774 & 20.6.2003, Manikandan 176354.

Scutia myrtina (Burm. f.) Merr. var. **emarginata** Bhandari & Bhansali (RHAMNACEAE)
Flowering & Fruiting: November-March.
Endemic to the Peninsular India. Andhra Pradesh, Maharashtra, Tamil Nadu.
Nagarahole, 23.3.2003, Manikandan 183757.

Setaria barbata (Lam.) Kunth (POACEAE)
Flowering & Fruiting: December-April.

Andaman & Nicobar Islands, Bihar, Kerala, Madhya Pradesh, North East India, subtropical Himalayas, Tamil Nadu.
Nagarahole, 20.4.2001, *Manikandan* 181715.

Syzygium taminadensis Rathakr. & Chithra (MYRTACEAE)
Flowering & Fruiting: February-June.
Endemic to the Western Ghats. Kerala, Maharashtra, Tamil Nadu.

Lokuntha, Meenkate Kolli, 16.2.2003, *Manikandan* 189847.

Taeniophyllum alwisii Lindl. (ORCHIDACEAE)
Flowering & Fruiting: December-March.
Endemic to the Southern Western Ghats. Kerala, Tamil Nadu.
Kymara, 28.9.2003, *Manikandan* 183786A.

Toxocarpus palghatensis Gamble (APOCYNACEAE)
Flowering & Fruiting: May-August.
Bhunekolli, 16.2.2003, *Manikandan* 189846.
Critically Endangered.

Typhonium bulbiferum Dalzell (ARACEAE)
Flowering & Fruiting: October-December.
Endemic to the Western Ghats. Kerala, Maharashtra.
Masalabetta near D.B. Kupe, 9.9.2003, *Manikandan* 188138.

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